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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,642	11/24/2003	Ying Tat Leung	YOR920030362US1	1196
21254	7590	12/18/2006	EXAMINER	
MCGINN INTELLECTUAL PROPERTY LAW GROUP, PLLC 8321 OLD COURTHOUSE ROAD SUITE 200 VIENNA, VA 22182-3817			DAM, KIM LYNN	
			ART UNIT	PAPER NUMBER
			2112	

DATE MAILED: 12/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/718,642	Applicant(s) LEUNG ET AL.	
	Examiner Kim-Lynn Dam	Art Unit 2112	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 11/24/03.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 February 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. This office action is in response to the application filed on 11/24/03.

#### ***Drawings***

2. Figure 6 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

#### ***Claim Objections***

3. Claim 21 is objected to because of the following informalities:

Claim 21 recites "wherein displaying the keyboard comprises" which refers back to claim 10, therefore it should be dependent on claim 10, not claim 8.

Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 16 and 17 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. In claim 16, the term "hot key" is not supported by the specification and in claim 17, the term "application result" is not supported by the specification. Applicant is advised to amend the specification or cancel the terms from the claim.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-17, 20 and 22-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Liao (US 2004/0021681).

Regarding claim 1, Liao disclosed a laptop computer (Abstract, lines 1-20; Figure 1) comprising:

a first display (Figure 1, element 105); and

a second display attachable to the first display, wherein the second display comprises a touch-sensitive display (Figure 1, element 107; Paragraph 0029, lines 1-11).

Regarding claim 2, Liao disclosed the computer of claim 1, wherein the second display is rotatably attachable to the first display (Abstract, lines 11-15; Paragraph 0011, lines 1-4; Paragraph 0024, lines 3-6).

Regarding claim 3, Liao disclosed the computer of claim 1, wherein the second display displays a user-interface (Abstract, lines 20-25; Paragraph 0011, lines 8-13, Paragraph 0029, lines 1-11).

Regarding claim 4, Liao disclosed the computer of claim 3, wherein the user-interface comprises a keyboard (Abstract, lines 20-25; Figure 2; Paragraph 0011, lines 17-24).

Regarding claim 5, Liao disclosed the computer of claim 3, wherein the user-interface comprises a pointing device (Paragraph 0027, lines 9-14; Paragraph 0030, lines 19-24).

Regarding claim 6, Liao disclosed the computer of claim 3, wherein the user-interface is reconfigurable in accordance with instruction from a software application being executed on the laptop computer (Paragraph 0029, lines 17-34 (where different

applications have different user interfaces as shown in Figures 4,5,6 and 7).

Regarding claim 7, Liao disclosed the computer of claim 1, wherein the first display comprises a touch-sensitive display (Abstract, lines 1-20; Figure 1, element 105; Paragraph 0025, lines 1-4).

Regarding claim 8, Liao disclosed the method of driving a laptop computer having a first display attachable to a second display that is touch-sensitive (Abstract, lines 1-20; Figure 1), the method comprising:

displaying a user-interface on the second display (Abstract, lines 20-25; Paragraph 0011, lines 8-13, Paragraph 0029, lines 1-11); and  
receiving an input from the user-interface (Abstract, lines 15-25).

Regarding claim 9, Liao disclosed the method of claim 8, wherein the first display is rotatably attachable to the second display (Abstract, lines 11-15; Paragraph 0011, lines 1-4; Paragraph 0024, lines 3-6).

Regarding claim 10, Liao disclosed the method of claim 8, wherein the user-interface comprises a keyboard (Abstract, lines 20-25; Figure 2; Paragraph 0011, lines 17-24).

Regarding claim 11, Liao disclosed the method of claim 10, further comprising reconfiguring the user-interface (Paragraph 0011, lines 18-25; Paragraph 0030, lines 1-12).

Regarding claim 12, Liao disclosed the method of claim 11, wherein reconfiguring the user-interface comprises reconfiguring the user-interface in response to an application state (Paragraph 0029, lines 17-34 (where different applications have different user interfaces as shown in Figures 4,5,6 and 7); Paragraph 0031, lines 1-5).

Regarding claim 13, Liao disclosed method of claim 11, wherein reconfiguring the user-interface comprises reconfiguring the user-interface in response to a user preference (Paragraph 0011, lines 18-25; Paragraph 0031, lines 11-16).

Regarding claim 14, Liao disclosed the method of claim 11, wherein reconfiguring the user-interface comprises reconfiguring the user-interface in response to a user instruction (Paragraph 0011, lines 17-24; Paragraph 0029, lines 13-17; Paragraph 0031, lines 11-19).

Regarding claim 15, Liao disclosed the method of claim 11, wherein reconfiguring the user-interface comprises one of changing the size of the user-interface, changing the location of the user-interface, moving a key within the user-interface, removing a key from the user-interface, changing a label on a key on the user-interface, and changing a color of a key on the user-interface (Paragraph 0029, lines 13-17 and 34-40 (where

switching the sub-screen and main-screen changes the location of the user-interface).

Regarding claim 16, as best understood by examiner, Liao disclosed the method of claim 8, further comprising displaying a hot key that triggers the execution of a plurality of instructions in accordance with a state of the laptop computer (Paragraph 0030, lines 1-12).

Regarding claim 17, as best understood by examiner, Liao disclosed the method of claim 8, further comprising displaying an application result (Paragraph 0031, lines 1-5).

Regarding claim 20, Liao disclosed the method of claim 8, further comprising displaying a drop-down menu on the second display (Paragraph 30, lines 24-29).

Regarding claim 22, Liao disclosed a signal-bearing medium tangibly embodying a program of machine-readable instructions executable by a digital processor for driving a laptop computer having a first display attachable to a second display that is touch-sensitive apparatus, the program comprising:

instructions for displaying a user-interface on the second display (Abstract, lines 20-25; Paragraph 0011, lines 8-13, Paragraph 0029, lines 1-11); and

instructions for receiving an input from the user-interface (Abstract, lines 15-25).



Regarding claim 23, Liao disclosed a laptop computer (Abstract, lines 1-20; Figure 1) comprising:

- a first display (Figure 1, element 105);

- a second display that is touch sensitive and attached to the first display (Figure 1, element 107; Paragraph 0029, lines 1-11);

- means for displaying a user-interface on the second display (Abstract, lines 20-25; Paragraph 0011, lines 8-13, Paragraph 0029, lines 1-11), and

- means for receiving an input from the user-interface (Abstract, lines 15-25).

Regarding claim 24, Liao disclosed a method of providing a display for a laptop computer (Abstract, lines 1-20; Figure 1), the method comprising:

- providing a first display (Figure 1, element 105); and

- providing a second display attachable to the first display, wherein the second display comprises a touch-sensitive display (Figure 1, element 107; Paragraph 0029, lines 1-11).

Regarding claim 25, Liao disclosed a laptop computer (Abstract, lines 1-20; Figure 1) comprising:

- a first display (Figure 1, element 105); and

- a second display attachable to the first display (Figure 1, element 107), wherein the second display comprises a customizable user-interface (Abstract, lines 20-25;

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Paragraph 0011, lines 8-13).

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liao (US 2004/0021681) in view of Huffman et al. (USPN 5,761,682).

Regarding claim 18, the rejection of claim 17 is incorporated. Liao does not specifically disclose wherein displaying an application result comprises displaying a first page of an electronic book on one of the first display and the second display. However, Huffman disclosed the above limitation (Column 5, lines 44-46; Figure 2). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Liao's system by incorporating the teachings of Huffman for the purpose of allowing users to more easily read pages of an electronic book.

Regarding claim 19, the rejection of claim 17 is incorporated. Liao does not specifically disclose wherein the displaying of the application result further comprises displaying a second page of an electronic book on the other one of the first display and the second display. However, Huffman disclosed the above limitation (Column 5, lines 44-46;

Figure 2). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Liao's system by incorporating the teachings of Huffman for the purpose of allowing users to more easily read pages of an electronic book.

9. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liao (US 2004/0021681) in view of Stanek (USPN 5,936,554).

Regarding claim 21, the rejection of claim 8 is incorporated. Liao does not specifically disclose wherein displaying the keyboard comprises displaying a color-coded keyboard. However, Stanek disclosed the above limitation (Column 2, lines 5-8). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Liao's system by incorporating the teachings of Stanek in order to allow users to more easily discern keys and makes a keyboard more user-friendly (Column 2, lines 1-8).

### ***Conclusion***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim-Lynn Dam whose telephone number is (571) 270-1408. The examiner can normally be reached on M-TH 7:30-5:00, Friday 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chameli Das can be reached on (571) 272-3696. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
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Art Unit 2112

  
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